

REF-
REF-
REF-

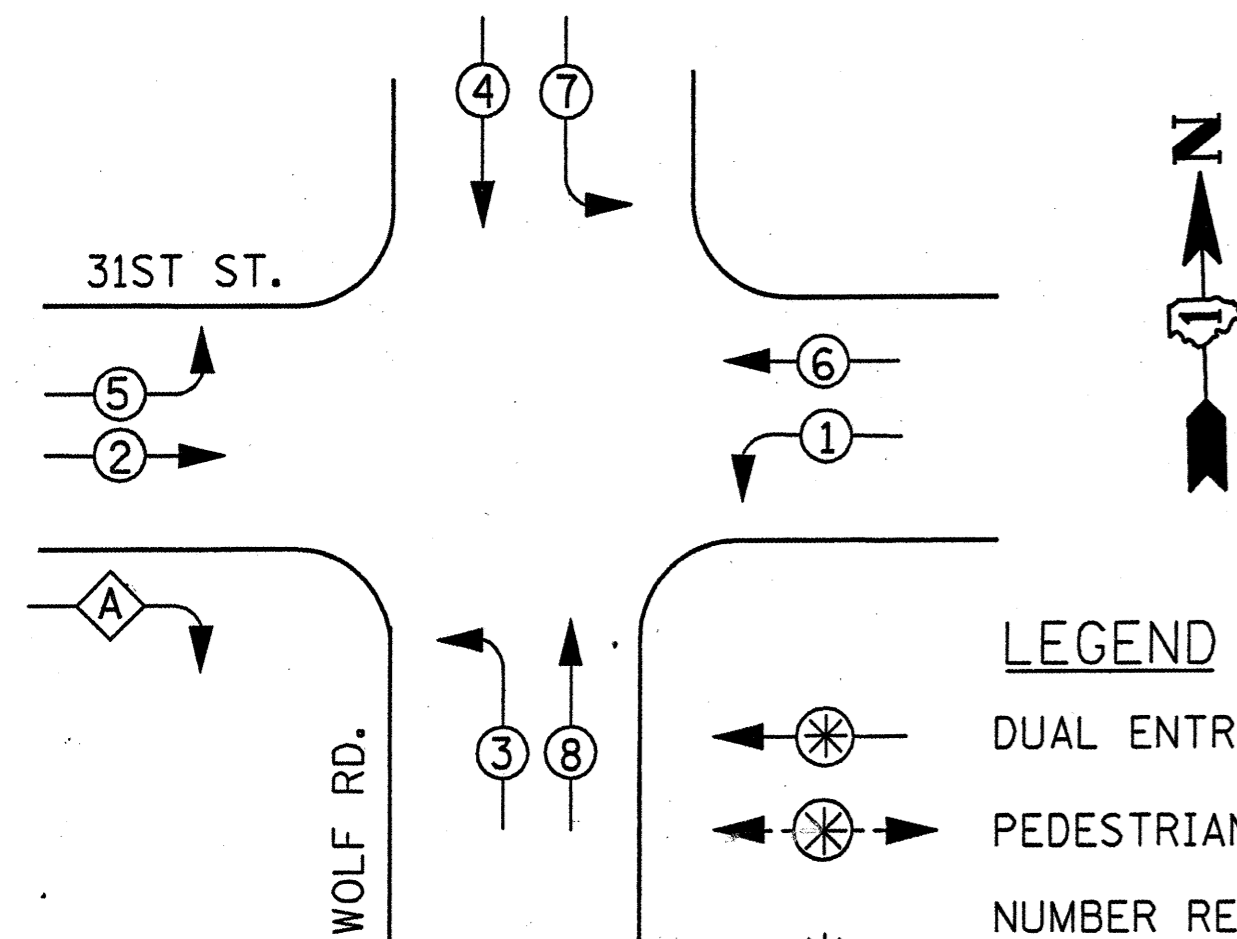
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1467	2000-044TS	COOK	32	8
STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

60948

CABLE PLAN LEGEND

EXISTING	PROPOSED	
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
		TELEPHONE CONNECTION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"
		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION

CONTROLLER SEQUENCE



LEGEND

DUAL ENTRY PHASE

PEDESTRIAN PHASE

NUMBER REFERS TO ASSOCIATED PHASE

EXISTING INTERSECTION AND PROPOSED SAMPLING (SYSTEM) DETECTORS

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2	3

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATION.

1 EACH CONTROLLER AND CABINET, COMPLETE

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE OF THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACTOR BID PRICE.

4 EACH SIGNAL HEAD, 1 FACE, 5 SECTION
10 EACH SIGNAL HEAD, 1 FACE, 1-5 SECTION
4 EACH TRAFFIC SIGNAL BACKPLATE
1 EACH SERVICE INSTALLATION

CABLE PLAN

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
0.09	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501
0.09	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
0.09	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
1	EACH	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET
2	EACH	PEDESRIAN PUSH-BUTTON
1	EACH	TRANSCEIVER-FIBER OPTIC
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
116	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
122	METER	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
311	METER	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
32.6	METER	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C
32.6	METER	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
27	METER	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	SERVICE INSTALLATION, POLE MOUNT

QUANTITY	UNIT	ITEM
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED
13	EACH	INDUCTIVE LOOP DETECTOR
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
4	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, LED, 2-FACE, 2-5 SECTION BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED
1	EACH	SERVICE INSTALLATION, POLE MOUNT

NOTE:

RELOCATION OF THE LIGHT DETECTOR AMPLIFIER(S) FROM THE OLD CONTROLLER CABINET TO THE NEW CONTROLLER CABINET IS NECESSARY. THE COST OF THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE NEW CONTROLLER AND CABINET.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	WATTAGE
SIGNAL (RED)	16	135	17	0.50	136.00
(YELLOW)	16	135	25	0.25	100.00
(GREEN)	16	135	15	0.25	60.00
ARROW	20	135	12	0.10	24.00
PED. SIGNAL	2	90	25	1.00	50.00
CONTROLLER	100	100	100	1.00	100.00
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					470.00

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: MIKE STEVENS
PHONE: 708-410-5117
COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2' =
E - M. ARM POLE		SIGNAL POST	2 (1.0)	(6m + L - 0.6m) =	
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
		ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
		GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
				POST MOUNTED	6 (1.8)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN, PHASE DESIGNATION DIAGRAM,
EMERGENCY VEHICLE PREEMPTION SEQUENCE
AND SCHEDULE OF QUANTITIES

31ST STREET
AT
WOLF ROAD

SCALE: NONE
DATE: 12/11/2003

DRAWN BY: RDB
DESIGNED BY: SM
CHECKED BY: DAD